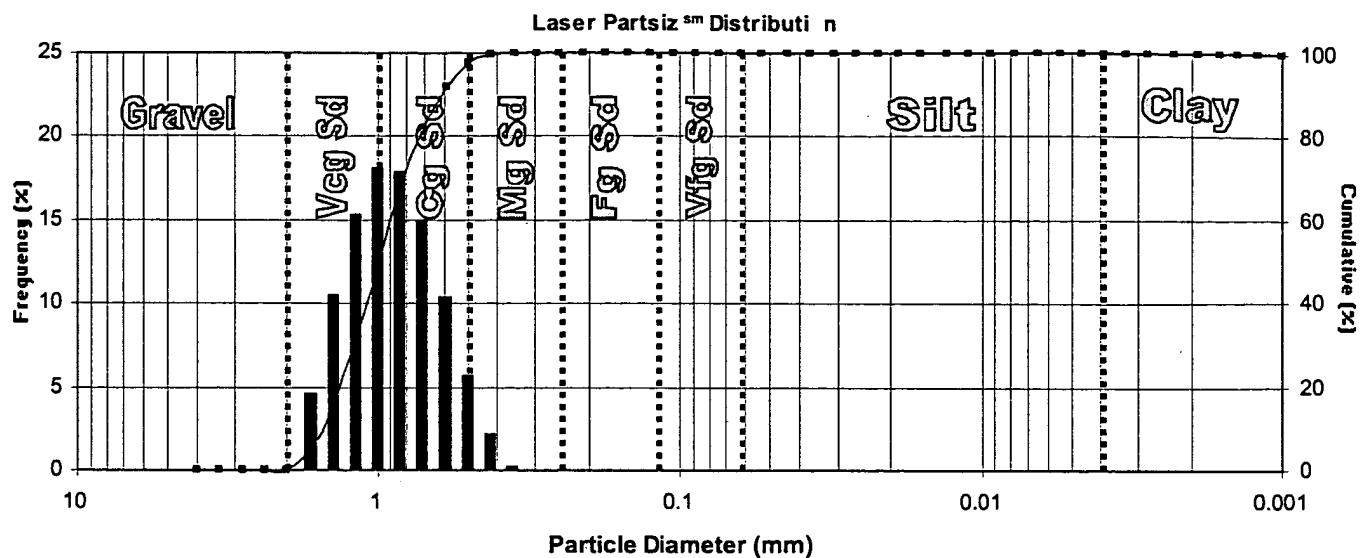
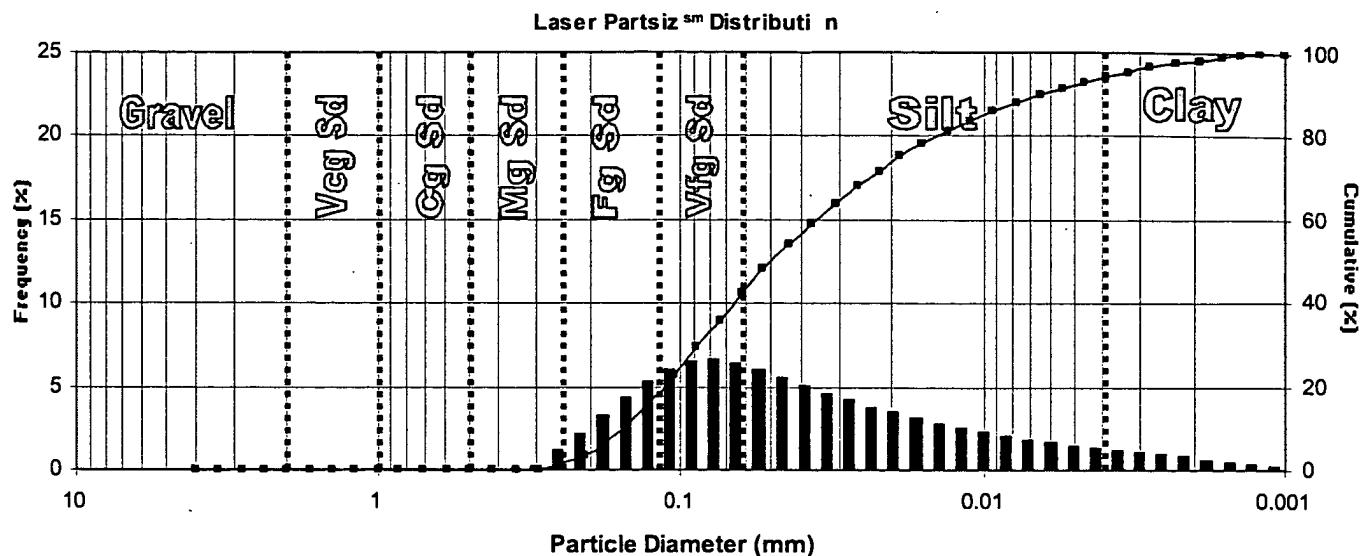


# Appendix A1



GRAIN SIZE DISTRIBUTION						SORTING PARAMETERS		
MESH	PHI	INCH	MM	SEP	SEP	CUM		
GRAVEL	5	-2.00	0.1575	4.0000	0.0	0.0	PERCENTILES:	
	6	-1.75	0.1323	3.3600	0.0	0.0	5	mm
	7	-1.50	0.1114	2.8300	0.0	0.0	10	Inches
	8	-1.25	0.0937	2.3800	0.0	0.0	16	phi
	10	-1.00	0.0787	2.0000	0.0	0.0	25	
	12	-0.75	0.0661	1.6800	4.6	4.6	30	
VCR SD	14	-0.50	0.0555	1.4100	10.5	15.2	50	
	16	-0.25	0.0469	1.1900	15.4	30.6	75	
	18	0.00	0.0394	1.0000	18.1	48.6	84	
	20	0.25	0.0335	0.8500	17.9	66.5	90	
	25	0.50	0.0280	0.7100	14.9	81.4	95	
	30	0.75	0.0236	0.6000	10.4	91.8		
CRS SD	35	1.00	0.0197	0.5000	5.7	97.5		
	40	1.25	0.0165	0.4200	2.2	99.7		
	45	1.50	0.0138	0.3500	0.3	100.0		
	50	1.75	0.0117	0.2970	0.0	100.0		
	60	2.00	0.0098	0.2500	0.0	2.5		
	70	2.25	0.0083	0.2100	0.0	100.0		
FINE SAND	80	2.50	0.0070	0.1770	0.0	100.0	SURFACE AREA (m^2/cc) :	
	100	2.75	0.0058	0.1490	0.0	100.0	0.0077	
	120	3.00	0.0049	0.1250	0.0	0.0		
	140	3.25	0.0041	0.1050	0.0	100.0	STD DEVIATION (mm) :	
	170	3.50	0.0035	0.0880	0.0	100.0	0.3577	
	200	3.75	0.0029	0.0740	0.0	100.0		
VFINE SAND	230	4.00	0.0024	0.0620	0.0	0.0	STD DEVIATION (Inches) :	
	270	4.25	0.0021	0.0530	0.0	100.0	0.0141	
	325	4.50	0.0017	0.0440	0.0	100.0		
	400	4.75	0.0015	0.0370	0.0	100.0	GRAVEL PACK :	
	500	5.00	0.0014	0.0310	0.0	0.0	10/20	
	525	5.25	0.0010	0.0260	0.0	100.0		
MED SILT	550	5.50	0.0009	0.0220	0.0	100.0	TRASK* FOLK** MOMENT**	
	575	5.75	0.0007	0.0190	0.0	100.0	MEAN	1.0178
	600	6.00	0.0006	0.0160	0.0	100.0	MEDIAN	0.9879
	625	6.25	0.0005	0.0130	0.0	100.0	SORTING	1.2873
	650	6.50	0.0004	0.0110	0.0	100.0	SKEWNESS	0.9985
	675	6.75	0.0003	0.0093	0.0	100.0	KURTOSIS	0.2725
FINE SILT	700	7.00	0.0003	0.0078	0.0	100.0	100.0	0.0281
	725	7.25	0.0002	0.0065	0.0	100.0	0.0176	0.0178
	750	7.50	0.0002	0.0055	0.0	100.0	0.5038	0.4885
	775	7.75	0.0002	0.0046	0.0	100.0	0.0469	0.1746
	800	8.00	0.0001	0.0039	0.0	100.0	0.9104	2.4308
	825	8.25	0.0001	0.0033	0.0	100.0		
VFINE SILT	850	8.50	0.0001	0.0028	0.0	100.0		
	875	8.75	0.0001	0.0023	0.0	100.0		
	900	9.00	0.0000	0.0019	0.0	100.0		
	925	9.25	0.0000	0.0016	0.0	100.0		
	950	9.50	0.0000	0.0014	0.0	100.0		
	975	9.75	0.0000	0.0012	0.0	100.0		
CLAY	1000	10.00	0.0000	0.0010	0.0	100.0	* COMPUTED USING MILLIMETER VALUES	
							** COMPUTED USING PHI VALUES	

# Appendix A2



GRAIN SIZE DISTRIBUTION						SORTING PARAMETERS		
MESH	PHI	INCH	MM	SEP	SEP	CUM		
GRAVEL	5	-2.00	0.1575	4.0000	0.0	0.0		
	6	-1.75	0.1323	3.3600	0.0	0.0		
	7	-1.50	0.1114	2.8300	0.0	0.0		
	8	-1.25	0.0937	2.3800	0.0	0.0		
	10	-1.00	0.0787	2.0000	0.0	0.0		
VCRS SD	12	-0.75	0.0661	1.6800	0.0	0.0		
	14	-0.50	0.0555	1.4100	0.0	0.0		
	16	-0.25	0.0469	1.1900	0.0	0.0		
	18	0.00	0.0394	1.0000	0.0	0.0		
	20	0.25	0.0335	0.8500	0.0	0.0		
CRS SD	25	0.50	0.0280	0.7100	0.0	0.0		
	30	0.75	0.0236	0.6000	0.0	0.0		
	35	1.00	0.0197	0.5000	0.0	0.0		
	40	1.25	0.0165	0.4200	0.0	0.0		
	45	1.50	0.0138	0.3500	0.0	0.0		
MED	50	1.75	0.0117	0.2970	0.2	0.2		
	60	2.00	0.0098	0.2500	1.2	1.4	1.4	
	70	2.25	0.0083	0.2100	2.2	3.6		
	80	2.50	0.0070	0.1770	3.3	6.9		
	100	2.75	0.0058	0.1490	4.4	11.3		
SAND	120	3.00	0.0049	0.1250	5.4	15.2	16.7	
	140	3.25	0.0041	0.1050	6.1	22.8		
	170	3.50	0.0035	0.0880	6.5	29.3		
	200	3.75	0.0029	0.0740	6.6	35.9		
	230	4.00	0.0024	0.0620	6.5	42.4		
VFINE	270	4.25	0.0021	0.0530	6.1	48.4		
	325	4.50	0.0017	0.0440	5.6	54.0		
	400	4.75	0.0015	0.0370	5.1	59.1		
	500	5.00	0.0014	0.0310	4.6	63.7		
	5.25	0.0010	0.0260	4.2	67.9			
SILT	5.50	0.0009	0.0220	3.8	71.7			
	5.75	0.0007	0.0190	3.4	75.1			
	6.00	0.0006	0.0160	3.1	14.5	78.2		
	6.25	0.0005	0.0130	2.8	81.0			
	6.50	0.0004	0.0110	2.5	83.5			
FINE	6.75	0.0003	0.0093	2.2	85.8			
	7.00	0.0003	0.0078	2.0	9.6	87.8		
	7.25	0.0002	0.0065	1.8	89.6			
	7.50	0.0002	0.0055	1.7	91.3			
	7.75	0.0002	0.0046	1.5	92.8			
SILT	8.00	0.0001	0.0039	1.4	6.3	94.1		
	8.25	0.0001	0.0033	1.2	95.4			
	8.50	0.0001	0.0028	1.1	96.5			
	8.75	0.0001	0.0023	1.0	97.4			
	9.00	0.0000	0.0019	0.8	98.2			
CLAY	9.25	0.0000	0.0016	0.6	98.9			
	9.50	0.0000	0.0014	0.5	99.4			
	9.75	0.0000	0.0012	0.4	99.8			
	10.00	0.0000	0.0010	0.2	5.9	100.0		

PERCENTILES:

	mm	Inches	phi
5	0.1981	0.0077	2.3504
10	0.1573	0.0062	2.6681
16	0.1280	0.0050	2.9659
25	0.0991	0.0039	3.3345
50	0.0505	0.0020	4.3082
75	0.0191	0.0008	5.7094
84	0.0107	0.0004	6.5519
90	0.0063	0.0002	7.3169
95	0.0035	0.0001	8.1656

SURFACE AREA (m<sup>2</sup>/cc): 0.4413

STD DEVIATION (mm): 0.0587

STD DEVIATION (Inches): 0.0023

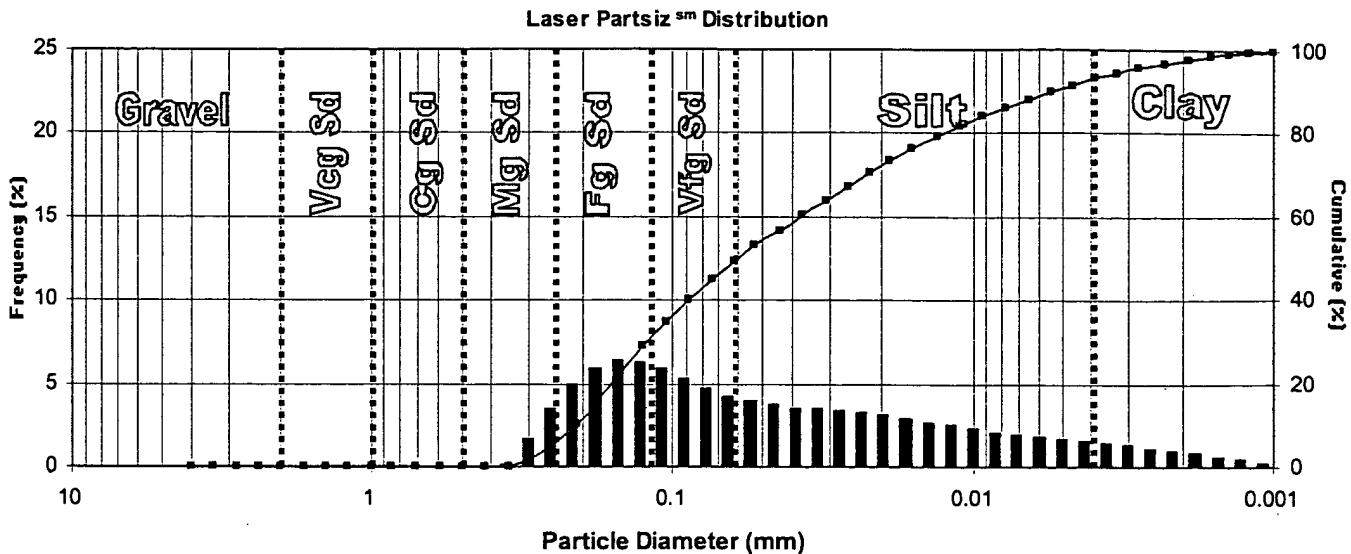
GRAVEL PACK : 40/60

TRASK\* FOLK\*\* MOMENT\*\*

MEAN	0.0591	4.6087	4.8016
MEDIAN	0.0505	4.3082	4.3082
SORTING	2.2775	1.7776	1.7573
SKEWNESS	0.7438	0.2890	0.7331
KURTOSIS	0.2649	1.0035	2.9118

\* COMPUTED USING MILLIMETER VALUES  
\*\* COMPUTED USING PHI VALUES

# Appendix A3



MESH	GRAIN SIZE DISTRIBUTION					SORTING PARAMETERS		
	PHI	INCH	MM	SEP	CUM	mm	inches	phi
GRAVEL	5	-2.00	0.1575	4.0000	0.0	0.0		
	6	-1.75	0.1323	3.3600	0.0			
	7	-1.50	0.1114	2.8300	0.0			
	8	-1.25	0.0937	2.3800	0.0			
	10	-1.00	0.0787	2.0000	0.0			
	12	-0.75	0.0661	1.6800	0.0			
VCRS SD	14	-0.50	0.0555	1.4100	0.0			
	16	-0.25	0.0469	1.1900	0.0			
	18	0.00	0.0394	1.0000	0.0			
	20	0.25	0.0335	0.8500	0.0			
CRS SD	25	0.50	0.0280	0.7100	0.0			
	30	0.75	0.0236	0.6000	0.0			
	35	1.00	0.0197	0.5000	0.0			
	40	1.25	0.0165	0.4200	0.0			
MED	45	1.50	0.0138	0.3500	0.1			
	50	1.75	0.0117	0.2970	1.6			
	60	2.00	0.0098	0.2500	5.3			
	70	2.25	0.0083	0.2100	10.3			
FINE	80	2.50	0.0070	0.1770	16.2			
	100	2.75	0.0058	0.1490	6.3			
	120	3.00	0.0049	0.1250	23.6			
	140	3.25	0.0041	0.1050	34.7			
VFINE	170	3.50	0.0035	0.0880	5.3			
	200	3.75	0.0029	0.0740	4.8			
	230	4.00	0.0024	0.0620	4.3			
	270	4.25	0.0021	0.0530	3.9			
CRS	325	4.50	0.0017	0.0440	3.7			
	400	4.75	0.0015	0.0370	3.5			
	500	5.00	0.0014	0.0310	3.5	14.6	63.7	
	525	5.25	0.0010	0.0280	3.4			
SILT	550	5.50	0.0009	0.0220	3.3			
	575	5.75	0.0007	0.0190	3.1			
	600	6.00	0.0006	0.0160	2.9	12.7	76.4	
	625	6.25	0.0005	0.0130	2.7			
MED	650	6.50	0.0004	0.0110	2.5			
	675	6.75	0.0003	0.0093	2.3			
	700	7.00	0.0003	0.0078	2.1	9.6	86.0	
	725	7.25	0.0002	0.0065	1.9			
VFINE	750	7.50	0.0002	0.0055	1.8			
	775	7.75	0.0002	0.0046	1.7			
	800	8.00	0.0001	0.0039	1.6	7.0	93.0	
	825	8.25	0.0001	0.0033	1.4			
SILT	850	8.50	0.0001	0.0028	1.3			
	875	8.75	0.0001	0.0023	1.1			
	900	9.00	0.0000	0.0019	1.0			
	925	9.25	0.0000	0.0016	0.8			
CLAY	950	9.50	0.0000	0.0014	0.6			
	975	9.75	0.0000	0.0012	0.5			
	1000	10.00	0.0000	0.0010	0.3	7.0	100.0	

PERCENTILES:

mm	inches	phi	
5	0.2539	0.0100	1.9777
10	0.2123	0.0084	2.2359
16	0.1783	0.0070	2.4874
25	0.1397	0.0055	2.8392
50	0.0599	0.0024	4.0616
75	0.0174	0.0007	5.8425
84	0.0092	0.0004	6.7595
90	0.0054	0.0002	7.5392
95	0.0031	0.0001	8.3425

SURFACE AREA (m<sup>2</sup>/cc): 0.4722

STD DEVIATION (mm): 0.0845

STD DEVIATION (inches): 0.0033

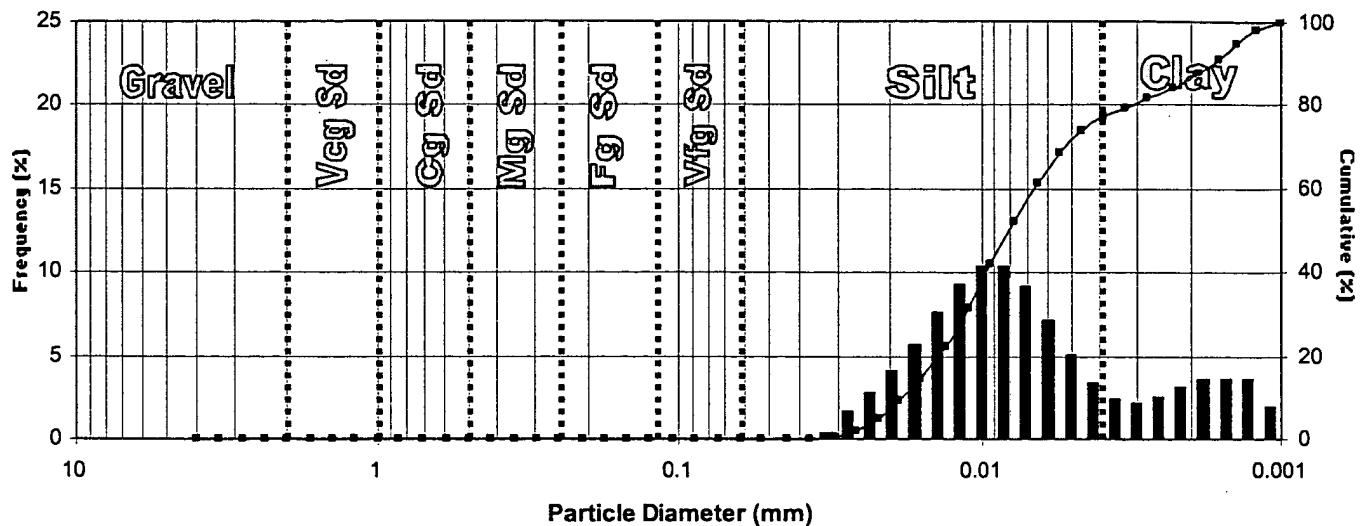
GRAVEL PACK : 40/60

	TRASK*	FOLK**	MOMENT**
MEAN	0.0786	4.4362	4.6266
MEDIAN	0.0599	4.0616	4.0616
SORTING	2.8317	2.0324	1.9997
SKEWNESS	0.6790	0.3041	0.8477
KURTOSIS	0.2956	0.8685	2.4930

\* COMPUTED USING MILLIMETER VALUES  
\*\* COMPUTED USING PHI VALUES

# Appendix A4

## Laser Partsiz<sup>sm</sup> Distribution



MESH	GRAIN SIZE DISTRIBUTION					CUM	SORTING PARAMETERS		
	PHI	INCH	MM	SEP	SEP		mm	inches	phi
GRAVEL	5	-2.00	0.1575	4.0000	0.0	0.0			
	6	-1.75	0.1323	3.3600	0.0	0.0			
	7	-1.50	0.1114	2.8300	0.0	0.0			
	8	-1.25	0.0937	2.3800	0.0	0.0			
	10	-1.00	0.0787	2.0000	0.0	0.0			
VCRS SD	12	-0.75	0.0661	1.6800	0.0	0.0			
	14	-0.50	0.0555	1.4100	0.0	0.0			
	16	-0.25	0.0468	1.1900	0.0	0.0			
	18	0.00	0.0394	1.0000	0.0	0.0			
	20	0.25	0.0335	0.8500	0.0	0.0			
CRS SD	25	0.50	0.0280	0.7100	0.0	0.0			
	30	0.75	0.0236	0.6000	0.0	0.0			
	35	1.00	0.0197	0.5000	0.0	0.0			
	40	1.25	0.0165	0.4200	0.0	0.0			
	45	1.50	0.0138	0.3500	0.0	0.0			
MED	50	1.75	0.0117	0.2970	0.0	0.0			
SAND	60	2.00	0.0098	0.2500	0.0	0.0			
FINE	70	2.25	0.0083	0.2100	0.0	0.0			
	80	2.50	0.0070	0.1770	0.0	0.0			
	100	2.75	0.0058	0.1490	0.0	0.0			
	120	3.00	0.0049	0.1250	0.0	0.0			
	140	3.25	0.0041	0.1050	0.0	0.0			
VFINE	170	3.50	0.0035	0.0880	0.0	0.0			
	200	3.75	0.0029	0.0740	0.0	0.0			
	230	4.00	0.0024	0.0620	0.0	0.0			
	270	4.25	0.0021	0.0530	0.0	0.0			
	325	4.50	0.0017	0.0440	0.0	0.0			
CRS	400	4.75	0.0015	0.0370	0.0	0.0			
	500	5.00	0.0014	0.0310	0.4	0.4			
	5.25	0.0010	0.0260	1.6	2.1				
	5.50	0.0009	0.0220	2.7	4.8				
	5.75	0.0007	0.0190	4.1	8.9				
MED	6.00	0.0006	0.0160	5.7	14.2	14.7			
SILT	6.25	0.0005	0.0130	7.6	22.3				
	6.50	0.0004	0.0110	9.3	31.6				
	6.75	0.0003	0.0093	10.4	42.0				
	7.00	0.0003	0.0078	10.4	37.7	52.4			
	7.25	0.0002	0.0065	9.2	61.5				
VFINE	7.50	0.0002	0.0055	7.2	68.7				
	7.75	0.0002	0.0046	5.0	73.7				
	8.00	0.0001	0.0039	3.3	24.7	77.1			
	8.25	0.0001	0.0033	2.4	79.4				
	8.50	0.0001	0.0028	2.1	81.6				
SILT	8.75	0.0001	0.0023	2.5	84.1				
	9.00	0.0000	0.0019	3.1	87.2				
	9.25	0.0000	0.0016	3.6	90.8				
	9.50	0.0000	0.0014	3.7	94.5				
	9.75	0.0000	0.0012	3.8	98.1				
CLAY	10.00	0.0000	0.0010	1.9	22.9	100.0			

PERCENTILES:

	mm	inches	phi
5	0.0219	0.0009	5.5146
10	0.0184	0.0007	5.7606
16	0.0155	0.0006	6.0139
25	0.0124	0.0005	6.3323
50	0.0081	0.0003	6.9405
75	0.0043	0.0002	7.8494
84	0.0023	0.0001	8.7510
90	0.0017	0.0001	9.2269
95	0.0014	0.0001	9.5095

SURFACE AREA (m<sup>2</sup>/cc) : 1.5076

STD DEVIATION (mm) : 0.0066

STD DEVIATION (inches) : 0.0003

GRAVEL PACK : N/A

TRASK\* FOLK\*\* MOMENT\*\*

MEAN	0.0084	7.2351	7.3110
MEDIAN	0.0081	6.9405	6.9405
SORTING	1.6917	1.2896	1.2063
SKEWNESS	0.8118	0.3046	0.5642
KURTOSIS	0.2406	1.0783	2.4784

\* COMPUTED USING MILLIMETER VALUES

\*\* COMPUTED USING PHI VALUES